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1 Report on the VLDB workshop on technologies for e-services (TES)


Fabio Casati, Umesh Dayal, Ming-Chien Shan

 December 2000 **ACM SIGMOD Record**, Volume 29 Issue 4

 Full text available:  [pdf\(395.77 KB\)](#) Additional Information: [full citation](#), [index terms](#)
2 Web and e-business application: A framework for automatic generation of web-based data entry applications based on XML


Volker Turau

 March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

 Full text available:  [pdf\(635.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a framework for web-based data entry applications. It introduces a method for the conceptional and the navigational design based on a textual specification in the form of an XML-application. This forms the input to a code generation environment allowing for real automated prototyping. The environment produces fully functional skeletons for the web pages. Together with the framework classes they can be utilized for testing and for requirements review. They also form the starti ...

Keywords: automated prototyping, frameworks, web-based data entry

3 Integrating and customizing heterogeneous e-commerce applications


Anat Eyal, Tova Milo

 August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

 Full text available:  [pdf\(286.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A broad spectrum of electronic commerce applications is currently available on the Web, providing services in almost any area one can think of. As the number and variety of such applications grow, more business opportunities emerge for providing new services based on the integration and customization of existing applications. (Web shopping malls and support for comparative shopping are just a couple of examples.) Unfortunately, the diversity of applications in each specific domain and the dispar ...

Keywords: Application integration, Data integration, Electronic commerce

4 **ObjectGlobe: Ubiquitous query processing on the Internet**

R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz, S. Seltzsam, K. Stocker

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**,

Volume 10 Issue 1

Full text available: [pdf\(251.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

We present the design of ObjectGlobe, a distributed and open query processor for Internet data sources. Today, data is published on the Internet via Web servers which have, if at all, very localized query processing capabilities. The goal of the ObjectGlobe project is to establish an open marketplace in which *data* and *query processing capabilities* can be distributed and used by any kind of Internet application. Furthermore, ObjectGlobe integrates *cycle providers* (i.e., machi ...

Keywords: Cycle-, function- and data provider, Distributed query processing, Open systems, Privacy, Quality of service, Query optimization, Security

5 **Designing wrapper components for e-services in integrating heterogeneous systems**

Massimo Mecella, Barbara Pernici

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**,

Volume 10 Issue 1

Full text available: [pdf\(292.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Component-based approaches are becoming more and more popular to support Internet-based application development. Different component modeling approaches, however, can be adopted, obtaining different abstraction levels (either conceptual or operational). In this paper we present a component-based architecture for the design of e-applications, and discuss the concept of wrapper components as building blocks for the development of e-services, where these services are based on legacy systems. We dis ...

Keywords: Component, Cooperation, Integration, Legacy system, Wrapper, e-application, e-service

6 **E-services: a look behind the curtain**

Richard Hull, Michael Benedikt, Vassilis Christophides, Jianwen Su

June 2003 **Proceedings of the twenty-second ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Full text available: [pdf\(269.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The emerging paradigm of electronic services promises to bring to distributed computation and services the flexibility that the web has brought to the sharing of documents. An understanding of fundamental properties of e-service composition is required in order to take full advantage of the paradigm. This paper examines proposals and standards for e-services from the perspectives of XML, data management, workflow, and process models. Key areas for study are identified, including behavioral servi ...

7 **Reflections on the dimensions of trust and trustworthiness among online consumers**

David Gefen

August 2002 **ACM SIGMIS Database**, Volume 33 Issue 3

Full text available: [pdf\(581.74 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Trust is emerging as a potentially central aspect leading to IT acceptance. It is especially

needed in the case of gaining and later retaining consumers of online vendors. This has been shown by previous research using single dimensional constructs. But trust can also be viewed as a multi-dimensional construct combining specific beliefs (sometimes labeled as trustworthiness) that either directly or through an overall assessment of trust influence relevant behavioral intentions. To show the need ...

Keywords: ability, benevolence, electronic commerce, integrity, trust, trust scales, trustworthiness, world wide web

8 **Semantic Web Services: Semantic web support for the business-to-business e-commerce lifecycle**

David Trastour, Claudio Bartolini, Chris Preist

May 2002 **Proceedings of the eleventh international conference on World Wide Web**

Full text available: [!\[\]\(23d9fc146e83b5c3013cfa32c784f8d5_img.jpg\) pdf\(212.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

If an e-services approach to electronic commerce is to become widespread, standardisation of ontologies, message content and message protocols will be necessary. In this paper, we present a lifecycle of a business-to-business e-commerce interaction, and show how the Semantic Web can support a service description language that can be used throughout this lifecycle. By using DAML, we develop a service description language sufficiently expressive and flexible to be used not only in advertisements, ...

Keywords: DAML, automated negotiation, e-commerce, matchmaking, semantic web, service description

9 **Measuring e-Commerce effectiveness: a conceptual model**

Shaun Pather, Geoff Erwin, Dan Remenyi

September 2003 **Proceedings of the 2003 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology**

Full text available: [!\[\]\(758ebdf4629c903da74c2e079717ae32_img.jpg\) pdf\(97.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The evaluation of user satisfaction is an established means of assessing Information Systems (IS) effectiveness. However, the advent of e-Commerce has shifted the location of the traditional user of Information Systems out of the physical domain of the organisation or business. e-Commerce businesses now have to deal with a new type of user viz. the e-Customer. Furthermore, the integral role that IS plays in delivering core business services or products implies that evaluation of the satisfaction ...

Keywords: e-Commerce, gap measurement, information systems, information systems effectiveness, measurement, service quality, user satisfaction

10 **Report on second international workshop on advanced issues of E-commerce and Web-based information systems**

Kun-Lung Wu, Philip S. Yu

September 2000 **ACM SIGMOD Record**, Volume 29 Issue 3

Full text available: [!\[\]\(c1168d6a8b365d11e842ece304635fa7_img.jpg\) pdf\(97.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The Second International Workshop on Advanced Issues of E-Commerce and Web-Based Information Systems (WECWIS 2000) was held at the Crowne Plaza San Jose/Silicon Valley in Milpitas, California on June 8-9, 2000. The purpose of this workshop was to bring together leading practitioners, developers and researchers to explore the challenging technical issues and find feasible solutions for advancing the current state of the art in e-commerce and

web-based information systems. In particular, th ...

11 P6: Document-based inter-organizational information exchange

Reinhard Riedl

October 2001 **Proceedings of the 19th annual international conference on Computer documentation**

Full text available:  pdf(217.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present our research work on document services for interstate e-government carried out in the FASME project. First, we depict the background for our research and we describe its basic challenges. Then we discuss the required services out of the perspective of inter-organizational document services and documentation issues. From the evaluations of our prototypical implementation with user groups, we may conclude that interstate e-government services are feasible and that life w ...

Keywords: e-government, inter-organizational work-flows

12 Business-to-business interactions: issues and enabling technologies

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 1

Full text available:  pdf(558.34 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

13 Service discovery: Behavioral models as service descriptions

Robert J. Hall, Andrea Zisman

November 2004 **Proceedings of the 2nd international conference on Service oriented computing**

Full text available:  pdf(209.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Interface descriptions, while adequate for describing relatively simple or uniform functionality, are too abstract to properly describe entities as complex as e-commerce services or feature rich telecommunications services. The web services community has partially acknowledged this, as description languages like WSDL and OWL-S have enriched interface information with additional fragments of component semantics. In this paper, we naturally extend this progression by proposing that services be ...

Keywords: behavioral model, executable specification, execution monitoring, service discovery, validation

14 Fighting the spam wars: A remailer approach with restrictive aliasing

Pawel Gburzynski, Jacek Maitan

February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1

Full text available:  pdf(162.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present an effective method of eliminating unsolicited electronic mail (so-called *spam*) and discuss its publicly accessible prototype implementation. A subscriber to our system is able to obtain an unlimited number of aliases of his/her permanent (protected) E-Mail address to be handed out to parties willing to communicate with the subscriber. It is also possible to set up publishable aliases, which can be used by human correspondents to contact the subscriber, while being useless to h ...

Keywords: Electronic mail, privacy, spam

15 Session 2: secure Web services: Validating a Web service security abstraction by typing

Andrew D. Gordon, Riccardo Pucella

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Full text available: [!\[\]\(950a62bbddad88d64435fd35607dfc42_img.jpg\) pdf\(210.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An XML web service is, to a first approximation, an RPC service in which requests and responses are encoded in XML as SOAP envelopes, and transported over HTTP. We consider the problem of authenticating requests and responses at the SOAP-level, rather than relying on transport-level security. We propose a security abstraction, inspired by earlier work on secure RPC, in which the methods exported by a web service are annotated with one of three security levels: none, authenticated, or both authen ...

Keywords: Web services, authentication, remote procedure call, type systems

16 A methodology for analyzing the performance of authentication protocols

Alan Harbitter, Daniel A. Menascé

November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4

Full text available: [!\[\]\(35dc653d59570f8f891c312eeece91a2_img.jpg\) pdf\(1.25 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Performance, in terms of user response time and the consumption of processing and communications resources, is an important factor to be considered when designing authentication protocols. The mix of public key and secret key encryption algorithms typically included in these protocols makes it difficult to model performance using conventional analytical methods. In this article, we develop a validated modeling methodology to be used for analyzing authentication protocol features, and we use two ...

Keywords: Authentication, Kerberos, mobile computing, performance modeling, proxy servers, public key cryptography

17 Security for Web Applications and P2P: Abstracting application-level web security

David Scott, Richard Sharp

May 2002 **Proceedings of the eleventh international conference on World Wide Web**

Full text available: [!\[\]\(21226b58c700e5231ab98d27101bac58_img.jpg\) pdf\(287.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Application-level web security refers to vulnerabilities inherent in the code of a web-application itself (irrespective of the technologies in which it is implemented or the security of the web-server/back-end database on which it is built). In the last few months application-level vulnerabilities have been exploited with serious consequences: hackers have tricked e-commerce sites into shipping goods for no charge, user-names and passwords have been harvested and confidential information (such as ...

Keywords: application-Level web security, component-based design, security policy description language

18 An evaluation of Web services in the design of a B2B application

K. Hogg, P. Chilcott, M. Nolan, B. Srinivasan

January 2004 **Proceedings of the 27th conference on Australasian computer science - Volume 26**

Full text available: [pdf\(206.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper describes the architectural considerations in the design of a web services B2B application. A component design is presented which exploits the postulated advantages of object oriented and web services technologies. Our main focus has been to design interim measures to overcome the limitations of current web services architecture and standards. We discuss our interim design with reference to our approach to load balancing and the design of application based error handling to support bo ...

Keywords: e-commerce, services oriented computing, web services

19 An architecture to support scalable online personalization on the Web

Anindya Datta, Kaushik Dutta, Debra VanderMeer, Krithi Ramamritham, Shamkant B. Navathe
August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

Full text available: [pdf\(167.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Online personalization is of great interest to e-companies. Virtually all personalization technologies are based on the idea of storing as much historical customer session data as possible, and then querying the data store as customers navigate through a web site. The holy grail of online personalization is an environment where fine-grained, detailed historical session data can be queried based on current online navigation patterns for use in formulating real-time responses. Unfortunately, as mo ...

Keywords: Behavior-based personalization, Dynamic lookahead profile, Profile caching, Scalable online personalization, Web site and interaction model

20 A semantics for web services authentication

Karthikeyan Bhargavan, Cédric Fournet, Andrew D. Gordon

January 2004 **ACM SIGPLAN Notices , Proceedings of the 31st ACM SIGPLAN-SIGACT symposium on Principles of programming languages**, Volume 39 Issue 1

Full text available: [pdf\(234.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We consider the problem of specifying and verifying cryptographic security protocols for XML web services. The security specification WS-Security describes a range of XML security tokens, such as username tokens, public-key certificates, and digital signature blocks, amounting to a flexible vocabulary for expressing protocols. To describe the syntax of these tokens, we extend the usual XML data model with symbolic representations of cryptographic values. We use predicates on this data model to d ...

Keywords: XML security, applied pi calculus, web services

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